

10/501,447

1-42. (CANCELED)

42. (PREVIOUSLY PRESENTED) A device for raising or cultivating cells in a container-like receptacle (1), the device comprising:

a cylindrical middle part of the device being closed off at a top by an upper lid (3) and a lower lid (12) which forms a base of the receptacle (1),

wherein the upper lid (3) and the lower lid (12) are connected to the middle part in a pressure-tight manner and the upper lid (3) and the lower lid (12) are each provided with at least one inlet bore (8) for one of an introduction and a withdrawal of a culture medium and oxygen,

the upper and the lower lids (3, 12) and the middle part are connected to one another by mating internal and external threaded connections (2, 4), and each threaded connection is provided with at least one sealing ring, and

the upper lid (3) and the lower lid (12) each include an extension ring (14) having an extension ring region extending beyond the threaded connections (2, 4) to at least partially enclose the cylindrical middle part and each extension ring region including at least one sealing ring located between the middle part and the extension ring region to additionally seal the middle part.

43-51. (CANCELED)

52. (PREVIOUSLY PRESENTED) A device for raising or cultivating cells in a container-like receptacle which comprises:

a base receptacle (1); and

at least an upper lid (3);

wherein the upper lid (3) is connected to the base receptacle (1) in a pressure-tight manner by mating internal and external threaded connections of the upper lid (3) and base receptacle (1), and each threaded connection is provided with at least one sealing ring, and at least one of the base receptacle (1) and the upper lid

10/19/09 2:00 PM

- 2 -

10/501,447

(3) is provided with at least one inlet bore (8) for one of introduction and withdrawal of a culture medium and oxygen;

at least one resilient lateral tensioning ring (15) encircles both an exterior surface of the base receptacle (1) and an exterior surface of the upper lid (3) to retain the upper lid (3) in sealing engagement with the base receptacle (1) when the container-like receptacle is rotated about a transverse axis; and

a pressurizing device coupled to the device for raising or cultivating cells for exerting pressure on the cells (7) being cultivated within the device.

53. (PREVIOUSLY PRESENTED) The device as claimed in claim 67, wherein the pressurizing means is formed of expandable elements (28).

54. (PREVIOUSLY PRESENTED) The device as claimed in claim 67, wherein the pressurizing means (17) is designed as a cylinder/piston unit.

55. (CANCELED)

56. (PREVIOUSLY PRESENTED) The device as claimed in claim 67, wherein the pressurizing means (17) subjects an interior of the base receptacle (1) containing the cells (7) to alternating pressure loads.

57-62. (CANCELED)

63. (PREVIOUSLY PRESENTED) A device for raising or cultivating cells in a container-like receptacle (1) which comprises

a base; and

at least one lid,

wherein the at least one lid (3) is connected to the receptacle (1) in a pressure-tight manner, and the receptacle (1) or the at least one lid (3) is provided with at least one inlet bore (8) for one of the introduction and withdrawal of culture medium and oxygen, and

a magnetizable pressure disk (25) is arranged in the receptacle (1) and moved by a magnetizing means (24) in order to exert pressure internally on the cells (7).

10/18/09 3:00 PM

- 3 -

10/501,447

64. (PREVIOUSLY PRESENTED) The device as claimed in claim 63, wherein the pressure disk (25) is provided with holes (26).

65. (PREVIOUSLY PRESENTED) The device as claimed in claim 63, wherein the pressure disk (25) has a grid or mesh structure.

66. (PREVIOUSLY PRESENTED) The device as claimed in claim 63, wherein the cells (7) are arranged on a support structure (27a) which is acted upon by the pressure disk (25) from one or both sides.

67. (CURRENTLY AMENDED) A device for raising or cultivating cells in a container-like receptacle (1) which comprises

a base; and

at least one lid;

wherein the at least one lid (3) is connected to the receptacle (1) in a pressure-tight manner, and the receptacle (1) or the at least one lid (3) is provided with at least one inlet bore (8) for one of the introduction and withdrawal of a culture medium and oxygen, ✓

a pressurizing means is located within a structure of the receptacle (1) for exerting fluid pressure on both the culture medium and the cells (7) being cultivated ✓  
within the device so that a pressure load is exerted on the cells all round from outside. ✓

68. (PREVIOUSLY PRESENTED) The device as claimed in claim 67, wherein the pressurizing means includes a movable film, plate or membrane (31) arranged in the receptacle (1).

69-76. (CANCELED).

77. (NEW) The device as claimed in claim 67, wherein the pressurizing means, which exerts the pressure load on the cells, is separate and independent of the culture medium.

78. (NEW) The device as claimed in claim 67, wherein the pressurizing means exerts an alternating pressure load on the cells.

10/19/09 - 2:00 PM

- 4 -

10/501,447

79. (NEW) The device as claimed in claim 67, wherein the pressurizing means includes a movable film, plate or membrane (31) arranged in the receptacle (1) and one of a hydraulic liquid and a gaseous medium is located on one side of the one of the movable film, plate or membrane (31) while the culture medium and the cells (7) are located on an opposite side of the one of the movable film, plate or membrane (31).

80. (NEW) The device as claimed in claim 67, wherein the pressurizing means is one of a hydraulic liquid and a gaseous medium.

81. (NEW) The device as claimed in claim 67, wherein the pressurizing means comprises one of a bag and a balloon and the culture medium and the cells (7) are located within one of the bag and the balloon.

82. (NEW) The device as claimed in claim 79, wherein the the culture medium is a gel.

10/19/2009 3:20 PM